

2001-14-204

CALFED Bay-Delta Program
Response to the 2001 Proposal Solicitation Package

Sierra Forest Communities Institute (SFCI)
Founded by the Sierra Economic Development District
March 1,2000

PSP prepared by:
Tom Amesbury, Project Coordinator
Betty Riley, President, Sierra Economic Development District
May 15,2000

Proposal # 2001- H-204 (Office Use Only)

PSP Cover Sheet (Attach to the front of each proposal)

Proposal Title: Sierra Forest Communities Institute
Applicant Name: Sierra Forest Communities Institute (SFCI) c/o Sierra Economic Development District (SEDD)
Contact Name: Tom Amesbury, SEDD Forester, SFCI Project Coordinator
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Amount of funding requested: \$ _____

Some entities charge different costs dependent on the source of the funds. If it is different for state or federal funds list below.

State cost _____ Federal cost _____

Cost share partners? ☒ Yes ☐ No

Identify partners and amount contributed by each: Once SFCI is established, by the approval of this CALFED grant, cost share funds will be derived through natural resource project work completed by SFCI for a variety of public and private organizations. Please refer to the project revenue stream portion of the grant proposal for specific client contract projections.

Indicate the Topic for which **you** are applying (check **only** one box).

- | | |
|---|--|
| <input type="checkbox"/> Natural Flow Regimes | <input type="checkbox"/> Beyond the Riparian Corridor |
| <input type="checkbox"/> Nonnative Invasive Species | <input checked="" type="checkbox"/> Local Watershed Stewardship |
| <input type="checkbox"/> Channel Dynamics/ Sediment Transport | <input type="checkbox"/> Environmental Education |
| <input type="checkbox"/> Flood Management | <input type="checkbox"/> Special Status Species Surveys and Studies |
| <input type="checkbox"/> Shallow Water Tidal/ Marsh Habitat | <input type="checkbox"/> Fishery Monitoring, Assessment and Research |
| <input type="checkbox"/> Contaminants | <input type="checkbox"/> Fish Screens |

What county or counties is the project located in? El Dorado, Nevada, Placer, Sierra Counties
comprise the public and private client base region of SFCI.

What CALFED ecozone is the project located in? See attached list and indicate number. Be as specific as possible. State planning watersheds in the above Counties that drain into and are part of the CALFED ecozones #8 and #9. CALFED ecozone #8 is the Feather River Sutter Basin, and the CALFED ecozone #9 is the American River Basin.

Indicate the type of applicant (check only one box):

- | | |
|--|--|
| <input type="checkbox"/> State agency | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input checked="" type="checkbox"/> Non-profit |
| <input type="checkbox"/> Local government /district | <input type="checkbox"/> Tribes |
| <input type="checkbox"/> University | <input type="checkbox"/> Private party |
| <input type="checkbox"/> Other: _____ | |

Indicate the primary species which the proposal addresses (check all that apply):

- | | |
|--|--|
| <input type="checkbox"/> _ San Joaquin and East-side Delta tributaries fall-run chinook salmon | |
| <input type="checkbox"/> _ Winter-run chinook salmon | <input type="checkbox"/> _ Spring-run chinook salmon |
| <input type="checkbox"/> _ Late-fall run chinook salmon | <input type="checkbox"/> _ Fall-run chinook salmon |
| <input type="checkbox"/> _ Delta smelt | <input type="checkbox"/> _ Longfin smelt |
| <input type="checkbox"/> _ Split tail | <input type="checkbox"/> _ Steelhead trout |
| <input type="checkbox"/> _ Green sturgeon | <input type="checkbox"/> _ Striped bass |
| <input type="checkbox"/> _ White Sturgeon | <input type="checkbox"/> _ All chinook species |
| <input type="checkbox"/> _ Waterfowl and Shorebirds | <input type="checkbox"/> _ All anadromous salmonids |
| <input type="checkbox"/> _ Migratory birds | <input type="checkbox"/> _ American shad |
| <input checked="" type="checkbox"/> X Other listed T/E species: | |

As ground truth watershed/ecosystem data is collected on T/E species found in the CALFED ecozone regions SFCI will be in a position to become a regional clearing house for impact evaluation and information dissemination.

Indicate the type of project (check only one box):

- | | |
|--|---|
| <input type="checkbox"/> _ Research/Monitoring | <input checked="" type="checkbox"/> X Watershed Planning |
| <input type="checkbox"/> _ Pilot /Demo Project | <input type="checkbox"/> _ Education |
| <input checked="" type="checkbox"/> X Full-scale Implementation | |

Full scale implementation of Watershed assessment and monitorine projects for the public and private client base of the four County SFCI region.

Is this a next-phase of an ongoing project? Yes ___ No **X**

Have you received funding from CALFED before? Yes ___ No **X**

If yes, list project title and CALFED number _____

Have you received funding from CVPIA before? Yes ___ No **X**

If yes, list CVPIA program providing funding, project title and CVPIA number (if applicable):

By signing below, the applicant declares the following:

- ☐ _ The truthfulness of all representations in their proposal;
- ☐ _ The individual signing the form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or organization); and
- ☐ _ The person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section 2.4) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

Tom Amesbury, SFCI Project Coordinator

Printed name of applicant

Tom Amesbury — 5-15-00
Signature of applicant

Sierra Forest Communities Institute, CALFED PSP

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B. Executive Summary

Funding request for the Sierra Forest Communities Institute (SFCI) founded **by** the Sierra Economic Development District.

The amount **of** this funding request is **\$579,525.00** over a two-year operating budget cycle. This represents 44% of the projects expected cost. The remaining 56% will be off set by the projects expected revenue income **of** \$775,000.00.

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Participants and collaborators:

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560 Wall Street, Suite F
Auburn, CA 95603
(530) 823-4703

Siskiyou Training & Employment Program
Attn: Joyce Zwanziger
310 Boles St.
Weed, CA 96094
(530) 938-3231

Northern Calif. Ecosystem Training Center
Attn: Mr. Larry Alexander
P.O. Box 656
Yreka, CA 96097
(530) 841-1600

High Sierra Resource Conservation Area
Attn: Mr. Bob Roan
251 Auburn Ravine Rd., Suite 201
Auburn, CA 95603
(530) 823-5687

Sierra Community College
Attn: Mr. Steve Jung, Associate Dean
5000 Rocklin Rd.
Rocklin, CA 95677
(916) 781-6234

Foresters Co-op
Attn: Tom Amesbury, Owner
10607 Dolores Dr.
Grass Valley, CA 95945
(530) 273-8326

Robinson Enterprises Inc.
Attn: Mr. Joe Griggs Jr.
293 Lower Grass Valley Rd., Suite 201
Nevada City, CA 95959
(530) 265-5844

Weyerhaeuser Family Foundation
Attn: Judith Healey
332 Minnesota Street, Suite 2100
St. Paul, MN 55101-1394
(Applied for Grant 4-28-00)
(651) 215-4431

Introduction:

The Sierra Economic Development District (SEDD) representing four rural Counties (El Dorado, Placer, Nevada, and Sierra Counties) in North-Central California has founded the Sierra Forest Communities Institute (SFCI) a private non-profit 501(c)3 organization. SFCI c/o SEDD is applying to the CALFED Bay-Delta program for two years of start-up funding that will allow SFCI become a reality.

SEDD's four County region is bounded on the east by the scenic and ecologically sensitive Lake Tahoe and on the west by the heavily populated California Central Valley, SEDD's forest communities find themselves economically and ecologically challenged. Approximately 1,896,000 acres of forested landscapes lie within SEDD's administrative region. CALFED ecozones #8 and #9 comprise approximately two thirds of this area (refer to the SFCI Regional Assessment Map on page 15). The ownership pattern of SEDD's forested region is 53% or 1,005,000 acres under public ownership (USFS, BLM, State), 21% or 389,000 acres small private ownership (ownership of 5,000 acres or less), and 26% or 493,000 acres of large industrial ownership (ownerships greater than 5,000 acres). The 1999 census population of SEDD's four County region is 495,633 and growing. Over the past decade each of these groups have embarked upon land management goals and objectives that have had damaging consequences to SEDD's regional forest communities. The public land management option of "No Project" is often chosen by the public agencies as an expedient solution to avoid controversy, while on the other hand the legal process is being used to intimidate every proposed private forest management project in the region. Private timber landowners are increasing their harvest intensity to off set the loss of the USFS timber supply and to off set the cost of the Timber Harvest Plan process. Forest Communities find themselves caught in the cross fire of these two opposing land management outcomes, and the citizens of our Forest Communities become angry and polarized in their respective beliefs.

Further more, an ever-increasing California population continues to encroach upon forest landscapes of our Counties, and this same populations insatiable demand for clean water, fire protection, wood products, recreation, and wildlife resources causes an unprecedented land use contradiction in SEDD's four County region. Additionally, State and Federal agencies such as the Environmental Protection Agency (EPA), California Resources Agency and their respective Departments have recently shifted their focus towards non-point source pollution regulation. The mechanism for the enforcement of non-point sources of pollution is the unmeasured Total Maximum Daily Load (TMDL) standards of the Environmental Protection Act. The State Water Resources Control Board (SWRCB) has stated this problem as; "Population and land use decisions over which the SWRCB has little or no control are the driving forces for California's Nonpoint Source (NPS) problems." SEDD believes in the solution offered by the SWRCB that has also been stated as; "Synergistic partnerships with stakeholders through which population and land use decisions can be influenced and/or controlled to protect and restore water quality." By creating the Sierra Forest Communities Institute to train citizens in watershedecosystem related implementation projects, SEDD will be actively building beneficial synergistic partnerships between our regions population and natural resources that envelops them.

Project Description:

SFCI is conceptualized as a rural county vocational work force training program that provides manpower for watershedecosystem assessment, monitoring, and restoration work. SFCI personal may participate in the implementation of research projects, however SFCI is not a research project or organization. SFCI offers a very practical solution to the forest resource utilization contradictions and TMDL regulatory requirements mentioned above.

SFCI Mission Statement

The Sierra Forest Communities Institute will provide rural communities tools to help citizens retain, improve and develop work opportunities and watershedecosystem management knowledge for the Sierra Forest region in which they live.

SFCI is being modeled after the established and successful Northern California Ecosystem Training Center (NorCET) located in Yreka, California. NorCET is an established (in their sixth year) 501(c) 3 organization and is a division of the Siskiyou Training & Employment Program, Inc. (STEP). Larry Alexander, NorCET Coordinator, has agreed to serve as an advisory member to the SFCI managing Board of Directors. NorCET has established an ecosystem management curriculum with the College of the Siskiyous (COS) located in Weed, California. This NorCET/COS curriculum is under review by our local Sierra Community College where the Associate Dean for Workforce Development, Mr. Steve Jung, has express his support for SFCI in concept. Over the last six tears NorCET has established a successful program in Yreka. NorCET has two full time field instructors, six full time trainees, and approximately 24 seasonal/temporary trainees. In 1999 NorCET's watershedecosystem project revenue was over \$600,000.00. This year NorCET has on the books ecosystem project work well in excess of \$100,000.00. This 35% project revenue increase is being attributed to an increase in demand for the services rendered by NorCET. NorCET is 100% self-sustaining and Larry expects continued growth in the coming years. By a percentage, NorCET project revenue is depicted as follows:

Watershed/Ecosystem Project Client	NorCET Revenue %
USFS, Klamath N.F. projects	35%
USFS, Shasta T. N. F. projects	15%
State of Calif. Parks projects	8%
State of Calif. Dept. of Fish and Game	7%
Fruit Growers Supply (private) projects	20%
Timber Products (private) projects	6%
Misc. Private Landowner project	9%
Total year 2000 Client committed NorCET ecosystem projects -	In excess of \$100,000.00

NorCET also provides a regional clearinghouse for GIS formatted natural resource data to the stakeholders of northeastern California. It is because of NorCET's success that SEDD is modeling SFCI after NorCET and has partnered with them to help establish and guide SFCI in its first formulative years.

Betty Riley's (SFCI President) management goal is for SFCI to become a fully self-supporting entity within a two to three-year time frame. We intend to pursue "participating

agreements” with both the Tahoe and El Dorado National Forest along with other Federal, State, and Private watershedecosystem project contract opportunities. We have budgeted and are projecting SFCI project revenues to be \$275,000.00 in the first year and \$500,000.00 in the second year of SFCI operation.

By chartering the SFCI, as a tool to implement watershedecosystem assessment, monitoring and restoration projects, SEDD’s stated organizational goal to “Build a collaborative regional forum to organize business, education, community, and government leadership around initiatives that promote the long-term economic health and quality of life in the region.” will be carried out. Additionally, the mission statement for the SFCI as written in the articles of incorporation for obtaining private non-profit status is as follows:

SFCI organizational activities completed by SEDD staff as of May 15,2000:

The Sierra Economic Development District (SEDD) has conducted the following activities with the respect to the founding and creation of SFCI:

- On March 1,2000 a SFCI creation presentation was made to the SEDD Board of Directors seeking the authorization for the submission of the applications to the IRS and Calif. State Franchise Board for the incorporation of SFCI as a private non-profit organization. The SEDD Board unanimously approved the motion. SEDD’s role was determined to act as the fiduciary managing organization for SFCI, to provide staffs to develop SFCI and seek funding sources that will make SFCI become a reality. Attached is a copy of the Articles of incorporation for SFCI, as approved by the SEDD Board.
- Betty Riley, SEDD President agreed to serve as founding President of the newly formed SFCI Organization
- As of April 27,2000 SFCI has received both State and Federal approval of our applications for the establishment of SFCI as a private non-profit organization (501.c.3). The IRS returned by fax the SFCI 501(c) 3 fed tax ID number on the application. We are still pending receipt of the letter of acceptance from the IRS. Copies of the California State Franchise Tax Board acceptance forms are attached.
- SFCI development meetings were held with NorCet and STEP. Both organizations have pledged their support for SFCI. (Copies of these letters are also attached)
- An initial SFCI vision and curriculum meeting has been held with SEDD staff, Larry Alexander of NorCET and Sierra Community College Personnel Bart Ruud (Natural Resource Counselor), and Steve Jung (Associate Dean). Once they review Siskiyou Colleges approved curriculum that is being used by NorCET (Yreka Training center), I believe they will support this effort out of the Grass Valley Campus.
- Robinson Timber Inc. a substantial California Licensed Timber Operator located in Grass Valley, CA has committed to be a chartering Board Directors.
- Pending Funding – On May 1,2000 SEDD submitted a funding requests from the Weyerhaeuser Family Foundation, 332 Minnesota Street, Suite 2100, St. Paul, MN 55101-1394, for the creation of a formalized Business Plan/Market Analysis for SFCI. The funding request amount is for a total of \$16,905.00 and if approved this would be available September 2000.

SEDD Planned Activities:

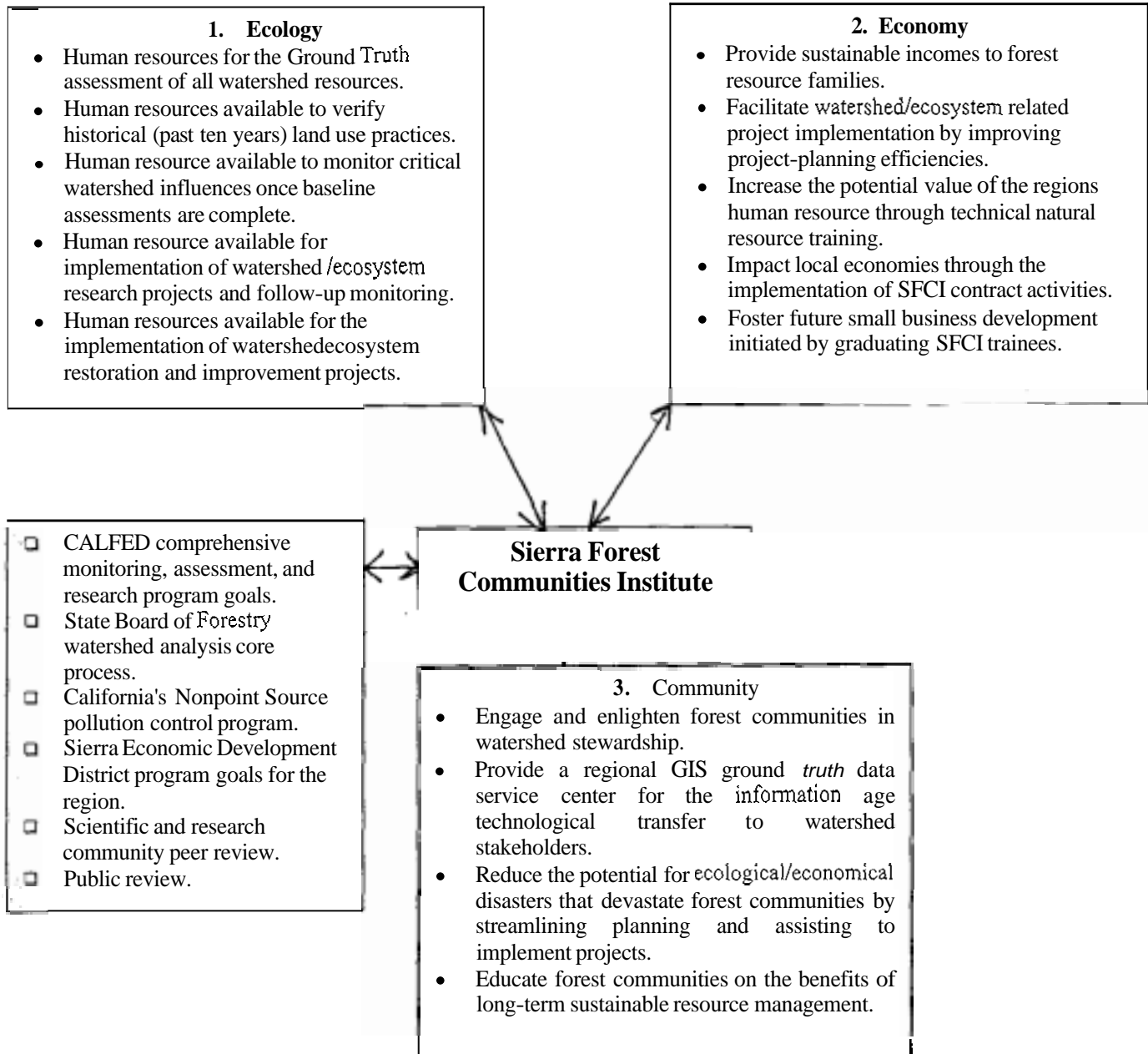
- Secure funding (possibly from the Weyerhaeuser Family Foundation) for the completion of a formal Business Plan and Market Analysis.
- Using the established NorCET Community College curriculum that is currently in use at the College of the Siskiyous, Weed, CA, SEDD staff will pursue the establishment of a similar curriculum at Sierra Community College so that SFCI trainees will be able to progress towards credits that will apply towards higher education degrees.
- Build a natural resource project client base for SFCI by soliciting watershed/ecosystem project work from the public and private landowners, SEDD Counties, and regulatory agency projects that could utilize trained resource technicians for fieldwork.
- Other SFCI Board members being solicited are, Bob Suter Manager for the Lone Star Timber Co., Gold Run, CA, Julie Lydoc of USFS Tahoe NF, Bob Hayden of Auburn Banking, and/or Greg Greenwood of California Department of Forestry (CDF-FRAP) Sacramento, CA.

b. Conceptual model:

NorCET is the living breathing conceptual model that we intend to replicate here in the central Sierras. SEDD and the Foresters Co-op have the vision, energy, and strategic alliances required to evolve the NorCET model into the locally responsive environmental training and service Sierra Forest Communities Institute. A conceptual model for the interactions of SFCI can be found on the following page.

As an illustration of project work that we anticipate SFCI to pursue, we are also providing an example of a fully funded watershed/ecosystem project that SEDD has contracted with the Foresters Co-op and NorCET for completion this year. This project is entitled the "Traverse Creek Watershed Assessment Cumulative Impact Project" and has been funded by the USDA State and Private Forestry Program (\$18,750), the Calif. Department of Forestry Fire and Resource Assessment Program (\$20,000) and the Sierra Economic Development District (\$5,000). The purpose of the Traverse Creek watershed project is to ground truth the watershed land-use and resources so that a cumulative impacts assessment can be developed for wildfire fuels reduction silviculture applied across the 9,379 acre state planning watershed. This impacts assessment will then be provided to all land owners within the watershed as a planning cost saving measure which will then encourage landowners to undertake site specific fuel reduction planning and implementation. For more specific information on the Traverse Creek Watershed, please refer to the attachment section of this PSP.

SFCI Conceptual Model



c. SFCI is based on the following Hypotheses:

- Catastrophic wildfire poses possible the singular most significant threat to the beneficial usage of our regions water resource. The products and services provided through the trainees and natural resource professionals of SFCI will facilitate and simplify the environmental permitting process required for forest fuel reduction management projects. It is also anticipated that the staff and trainees of the SFCI will receive fire suppression training and be on standby status for the local fire fighting agencies.

- Synergistic partnerships between public and private organizations will be established through watershed/ecosystem projects implemented by a trained and knowledgeable entity such as SFCI. Graduate trainees of SFCI will be encouraged to practice watershed stewardship in their home communities. The privatization of watershed stewardship will secure its success.
- The urbanization of California's more ecologically sensitive forested watersheds will continue to pressure landowners and managers to shift land use management decisions towards ecologically damaging land use and practices. The traditional resources derived from forestland are unable to economically compete with the demand for land sub-division. By working smarter through the efforts of SFCI and other watershed-trained organizations, landowners and managers can reduce the cost of land management and actively promote the beneficial practices of sustainable resource based economies. Land sub-division and septic tank propagation pose a serious threat to the beneficial usage of our regions water resource.
- The lowest level of effective water quality regulation will only be achieved through the willing compliance of an enlightened population. SFCI will engage the population through restoration, assessment and monitoring projects completed in the populations own watershed backyard. These projects will be orchestrated, reviewed, and approved through the local community stakeholders.

d. SFCI Adaptive Management Goals:

SFCI Purpose is to integrate ecology, economy and community:

By involving individuals, educators, state, federal and county departments in the training for the fieldwork required for the collection, input, and analysis of forestland natural resources, SFCI will integrate our local ecology, economy, and communities. By providing jobs to trainees, resource professionals, and GIS technicians SFCI will provide a positive economical impact to rural communities. Natural resource management activities and efficiencies will be enhanced through the creation and maintenance of the SFCI ground truth GIS data service center.

- Ecology – Identify, demonstrate and implement innovative techniques and equipment for watershed/ecosystem mensuration for the purposed of establishing assessment and monitoring protocols which will facilitate forest resource management, impaired watershed restoration efforts, and improved resource utilization and community development. Project related cumulative impact models would be available to landowners for third order watershed geographic regions (3,000 to 10,000 acres in size). An evaluation of resource sustainability is an integral part of an environmental cumulative impacts assessment.
- Economy – Provide gainful employment to twenty plus natural resource trainees while providing forestland owners, both public and private, a trained work force to complete forest resource related projects at a market driven competitive cost. SFCI trainees/employees will also receive entrepreneurial independent contractor education, from the Sierra College Small Business Development Center, Auburn, Calif., so as to prepare them for future jobs in tomorrow's forest.
- Community Outreach - Provide a local forum for forest community citizens to learn methods for positive economic and ecological management of the natural resource assets that are in their back yard. Through the process of working on watershed/ecosystem projects, the trainees/employees of SFCI will become natural resource information dissemination sources within our communities.

- GIS Service Center – SFCI will undertake the development of a regional natural resource ground truth GIS data repository for the common coordination of standards and application development for the SEDD four County Region. SFCI will strive to become the principle point of contact and data exchange between public and private forest ownerships in the region. SFCI will produce the highest quality GIS products because of the intensive ground truth fieldwork conducted by SFCI natural resource trained work force.

2. Proposed Scope of Work

a. Location of Project:

SFCI will contract and implement watershedecosystem assessment, monitoring and restoration project work throughout the central Sierra Nevada Mountain Range. SFCI will be based out of Auburn, CA and the primary service region will be El Dorado, Nevada, Placer and Sierra Counties. Please refer to the SFCI Assessment region map found on page 15.

b. Approach – TaskManagement:

The following task schedule for the development of SFCI will be followed assuming funding is secured to provide for SFCI creation.

SFCI Project Administrative Management:

Timeline: Ongoing

Funds: \$29,359 1st year, \$8,808 2nd year.

Lead: SEDD personal, SFCI Project Coordinator and NorCET personal, and CALFED project administrator.

SEDD, as the Fiduciary Contract Manager, will be responsible for the performance of the work as set forth herein below and for the preparation of products and a final report as specified in this scope of work. The Fiduciary Contract Manager shall promptly notify the CALFED project administrator of events or of proposed changes that could affect the scope, budget or schedule of work performed under this agreement. SEDD has an annual project administration contract with the Foresters Co-op and will rely on the services of the Foresters Co-op in conjunction with NorCET personal for assistance in completing the following duties:

- Monitor the development and operation of SFCI as per the CALFED PSP requirements.
- Provide all technical and administrative services as needed for contract completion; monitor, supervise and review all work performed and coordinate budgeting and scheduling to assure that the contract is completed within budget, on schedule and in accordance with approved procedures, applicable laws and regulations.
- Ensure that the contract requirements are met through completion of Quarterly Status Reports submitted to the CALFED project administrator by the 10th of the month following the end of the calendar quarter (January, April, July, and October) and through regular communication with the CALFED project administrator. The quarterly reports shall describe activities undertaken and accomplishments of each task during the quarter, milestones achieved, and any problems encountered in the performance of the work under this contract. The description of activities and accomplishments of each task during the quarter in sufficient to provide a basis for payment of invoices and shall be translated into percent of task completed for the purpose of calculating invoice amounts.
- Award subcontract to appropriate organization to perform tasks outlined in this agreement.

Document steps taken in soliciting and awarding the subcontract and submit to the Contract Manager for review. Document all subcontractor activities in quarterly reports.

- At the completion of this two-year grant and prior to final payment, the Fiduciary Contract Manager shall fill out and provide a final project report complete with an audited accounting of all CALFED fund expent.

Administrative Products: Quarterly Reports, Subcontract documentation, project monitoring ~~as~~ per CALFED requirements.

Task 1. SFCI regional **GIS Service/Training** Center Start-up

Timeline: Three months

Funds: \$85,615 – 1st year, \$10,040 – 2nd year

Lead: SFCI Project Coordinator and NorCET personal, and CALFED project administrator.

The location of the GIS Service/Training center will be 560 Wall Street, Auburn, Calif. This facility will also function as a dispatch and data download center for the SFCI field crews as they go about their watershed/ecosystem assessment, monitoring and restoration contract project work. Trainee field crews on remote projects may establish temporary GIS data centers specific to the needs of the project at hand.

The purpose of the regional SFCI-GIS service center is to allow for comprehensive, data management that permits broad access to biological, water quality, hydrodynamic, and physical data from the Bay/Delta and its watershed. The intent of the SFCI-GIS task is not to duplicate or replace the efforts of any entity involved, but to provide a comprehensive ground truth data for scientists and decision-makers. Important features the SFCI-GIS service center are: 1. The data will be spatially referenced through a Geographic Information System. 2. The database would include data from public agencies, municipalities, and larger private companies and consultants. Specific sub-tasks include:

- 1.1 The SFCI project coordinator will assemble a committee of technical experts review current data management systems, develop components necessary to provide the best system for managing field data collected by SFCI personal. This committee shall:
 - Determine how comprehensive access of existing data systems should occur;
 - Develop a process and estimate the cost for obtaining data from data providers;
 - Request bids for computer equipment and application software that is necessary to turn data into information.
- 1.2 Hire a full time GIS project technician for the sole purpose of assembling and maintaining the SFCI-GIS Service/Training center.
- 1.3 The SFCI project coordinator in conjunction with the GIS tech. implement the purchase of a six man station computer network GIS hardware/software ground truth data input and training center. Compatibility of the SFCI-CIS service/training center with public and private entities will be assured by soliciting their expertise in the initial design of the GIS hardware/software system.

Task Products: Fullyfunctional six station **GIS** data **Service/Training** Center

Task 2. **Watershed/Ecosystem** Contract work implementation:

Timeline: In progress as of May 15, 2000 and will be ongoing once grant funding is received.

Funds: \$195,346 1st year CALFED Grant, \$275,000 projected contract work, \$158,842 2nd year.

Lead SEDD, SFCI Project Coordinator, NorCET personal, and Sierra Community College personal

- 2.1 Once CALFED grant funding is available (February 2001), assembly necessary tools

- and equipment to commence upon the implementation of watershed/ecosystem assessment, monitoring and restoration contracts secured.
- 2.2 Interview and hire six (6) full time and up to twelve 12 temporary natural resource field trainee interns.
 - 2.3 Network through Sierra Community College, State and Federal Agencies, and Universities for contracted training services to support the resource-training element required by the curriculum established for SFCI at Sierra Community College, Rocklin, CA. NorCET has an established a two year community College curriculum in place at the College of the Siskiyous. We expect that this curriculum will be transferable to Sierra Community College.
 - 2.4 SFCI trainees/employees will also receive entrepreneurial independent contractor education through the Sierra College Small Business Development Center, so as to prepare them for future jobs in tomorrow's forest.
 - 2.5 Maintain SFCI facility and equipment.
 - 2.6 Conduct Safety training for all SFCI personal.
- Task Product:** *The implementation of approximately \$500,000.00 of watershed/ecosystem assessment, monitoring, and restoration projects for the stakeholders of the SFCI region.*

Task 3. Community Information Transfer, Marketing, Web page maintenance:

Timeline: In progress as of May 15, 2000 and will be ongoing once grant funding is received.

Funds: \$61,459 1st year, \$30,057 2nd year

Lead SFCI Project Coordinator and NorCET personal, SEDD Personal

- 3.2 Develop a watershed/ecosystem project marketing analysis for the SFCI region.
- 3.3 Establish SFCI "participating agreements" with the Tahoe and El Dorado National Forest. The Project Coordinator will provide CALFED copies of these agreements within thirty Days of grant funding.
- 3.4 Outreach to the other watershed stakeholders and land managers for natural resource contract procurement and SFCI information transfer.
- 3.5 The information transfer product will be a metadata information system providing SFCI project-specific information on project objectives, questions addressed through monitoring, spatial coverage, attributes monitored, location of sampling sites, frequency of monitoring, primary contact, reporting scheme, and funding. The system will be designed for continuous use for coordination, information on project status, and project gap analysis.
- 3.6 Make watershed/ecosystem assessment, monitoring and restoration project information publicly assessable by developing a SFCI WWW home page linked to the current SEDD home page.
- 3.7 Conduct two annual forest community watershed education workshops that best illustrate the nature and purpose of project work being implemented by SFCI personal.

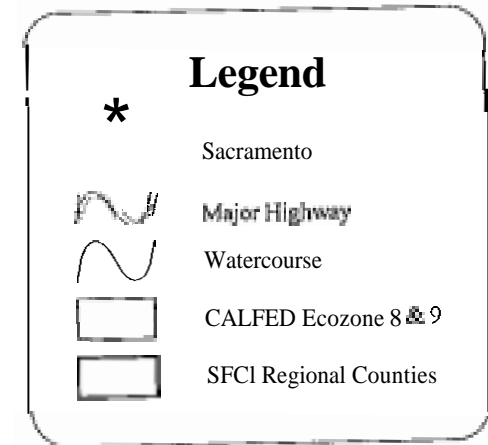
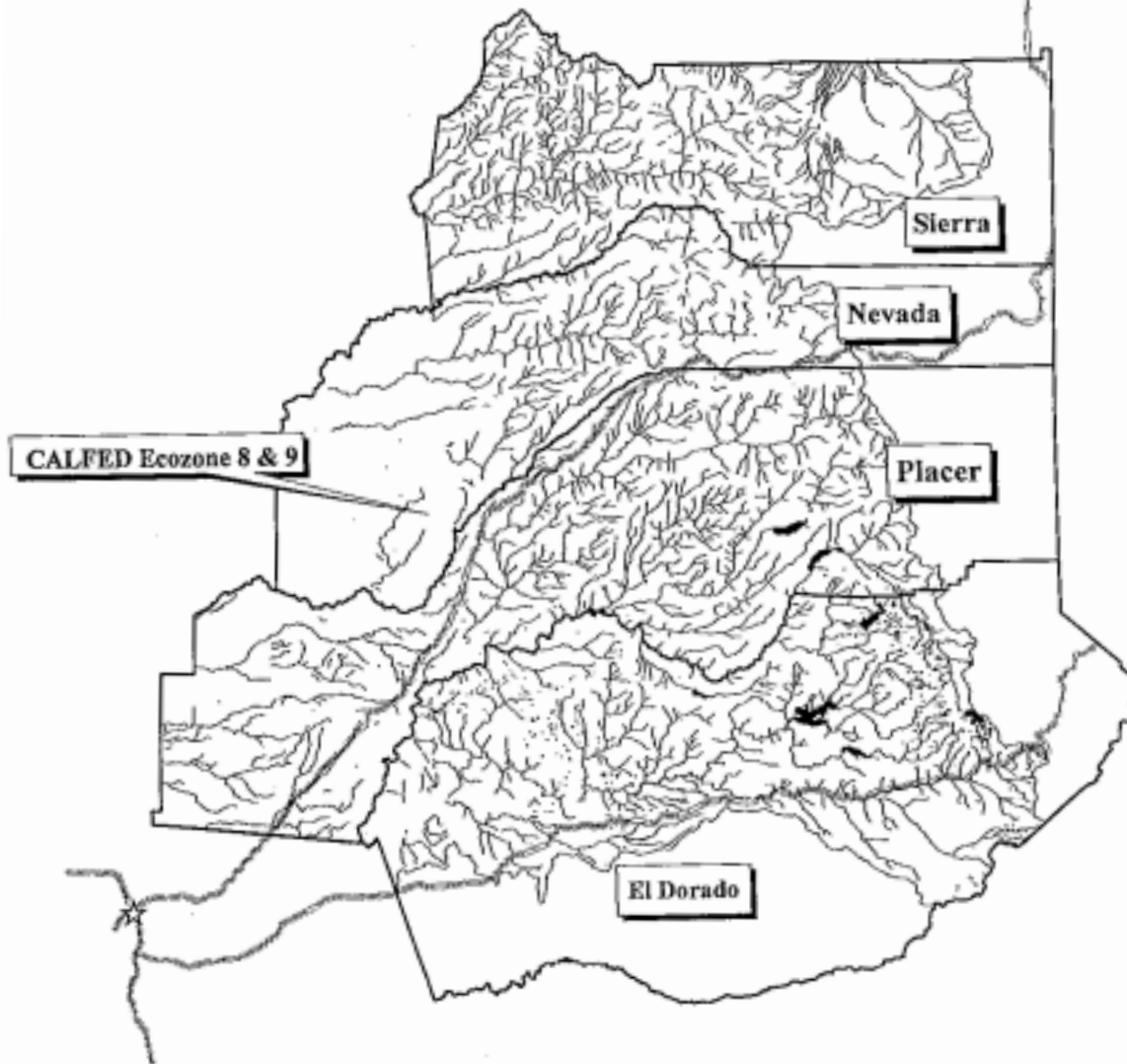
Task Product: *Community outreach, natural resource contract procurement, World Wide Webpage creation and maintenance for information transfer.*

E. Qualifications:

Resumes for Betty Riley (SEDD), Tom Amesbury (Foresters Co-op), and Larry Alexander (NorCET) in the attachment section of this PSP.

Sierra Forest Communities Institute CALFED Grant Watershed/Ecosystem Assessment Region

15



Forestkrs Co-op
May 12, 2000

Table 1. Sierra Forest Communities Institute (SFCI) CALFED 2001 PSP Budget

Year	Task	Direct Labor Hours	Subject to Overhead						Exempt from Overhead		Total Cost
			Salary	Benefits	Travel	Supplies & expendables	Service Contracts	Overhead (22%)	Equipment	Graduate Student Fee Remission	
Year 1	Task 1	See Attached	\$3,600	\$1,080	\$1,500	\$2,400	\$22,350	\$2,535	\$52,150	\$0	\$85,615
	Task 2	See Attached	\$107,632	\$26,944	\$600	\$0	\$5,820	\$12,550	\$41,800	\$0	\$195,346
	Task 3	See Attached	\$19,480	\$4,960	\$1,500	\$2,400	\$25,820	\$7,299	\$0	\$0	\$61,459
	Project Management	See Attached	\$7,440	\$2,232	\$250	\$1,200	\$14,550	\$3,687	\$0	\$0	\$29,359
Total Cost Year 1			\$138,152	\$35,216	\$3,850	\$6,000	\$68,540	\$26,071	\$93,950	\$0	\$371,779
Year 2	Task 1	See Attached	\$1,080	\$324	\$450	\$720	\$6,705	\$761	\$0		\$10,040
	Task 2	See Attached	\$112,548	\$28,164	\$450	\$720	\$4,365	\$12,595	\$0		\$158,842
	Task 3	See Attached	\$5,844	\$1,488	\$450	\$720	\$19,365	\$2,190	\$0		\$30,067
	Project Management	See Attached	\$2,232	\$670	\$75	\$360	\$4,365	\$1,106	\$0		\$8,000
Total Cost Year 2			\$121,704	\$30,646	\$1,425	\$2,520	\$34,800	\$16,651	\$0	\$0	\$207,746
Total Project Cost			\$259,856	\$65,862	\$5,275	\$8,520	\$103,340	\$42,722	\$93,950	\$0	\$579,525

EQUIPMENT BREAKOUT

SFCI - EQUIPMENT BREAKOUT

YEAR 1

EQUIPMENT

Task 1 GIS SERVICE CENTER COMPUTER EQUIPMENT			
	Units	Unit Cost	
Computer/Equipment	7x	\$3,000/ea	21,000.00
Server Station	1x	\$4,500/ea	4,500.00
Desks/Workstations	7x	\$250/ea	1,750.00
GIS NT Software			8,500.00
Plotter & two Printers			3,000.00
Portable Computers	2x	\$3,200/ea	6,400.00
Network Software			2,500.00
Heavy Equipment Operation Simulators			4,500.00
		Subtotal	\$52,150.00
Task 1 Total			\$52,150.00

Task 2 VEHICLES			
Lease	3x	\$350/mo	12,600.00
Fuel	3x	\$100/mo	3,600.00
Insurance	3x	100/mo	3,600.00
		Subtotal	\$19,800.00
Task 2 TOOLS			
GPS			4,500.00
Field Tools			12,500.00
Safety Equipment			5,000.00
Cell Phones	4x	\$50/mo	2,400.00
		Subtotal	\$22,000.00
Task 2 Total			\$41,800.00

SFCI OVERHEAD COST INCLUDE THE FOLLOWING EXPENSES:

- Rent/Utilities
- Insurance
- Audit
- Copier & Phone Lease
- Postage
- Telephone
- Equipment Repairs
- Clerical & Bookkeeping
- Generic Office Supplies
- 30% Operations Manager Salary

Rate is figured at 30% of Direct Salaries

10% of contract and project staff (includes Interns)

Sierra Forest Communities Institute CALFED 2001 PSP
Attachments and Support Information



Sample Governmental Notice Letter

May 11,2000

«name», «title»
«dept _»
«address»
«city», «state» «zip»

SERVING EL DORADO,

NEVADA, PLACER,

AND SIERRA

COUNTIES

Re: 2001 CALFED Bay-Delta Program Application Governmental Notice

Dear «title»;

On May 15,2000, the Sierra Economic Development District (SEDD) will submit (on behalf of the Sierra Forest Communities Institute) an application to the CALFED Bay-Delta Program. SEDD representing four rural Counties (El Dorado, Placer, Nevada; and Sierra Counties) in North-Central California proposes to found the Sierra Forest Communities Institute (SFCI) a private non-profit 501(c)3 organization. SEDD has applied to the CALFED Bay-Delta program for the initial funding that will help SFCI become a reality.

An ever-increasing California population continues to encroach upon forest landscapes of our Counties, and this same populations insatiable demand for clean water, wood products, recreation, and wildlife resources causes an unprecedented land use contradiction in SEDD's four County region. Additionally, State and Federal agencies such as the Environmental Protection Agency (EPA), California Resources' Agency and their respective Departments have recently shifted their focus towards non-point source pollution regulation. The mechanism for the enforcement of non-point sources of pollution is the unmeasured Total Maximum Daily Load (TMDL) standards of the Environmental Protection Act. Because each of these actions threatens the very existence of forest resource based economies, SEDD is embarking on the creation of the Sierra Forest Communities Institute (SFCI).

SFCI is conceptualized as a rural county vocational work force training program that provides manpower for watershedecosystem assessment, monitoring, and restoration work on public and private lands. SFCI offers a very practical solution to the forest resource utilization contradictions and TMDL regulatory requirements mentioned above. SFCI is being modeled after the established and successful Northern California Ecosystem Training Center (NorCET) located in Yreka, California. NorCET is an established (in their sixth year) 501(c) 3 organization and is a division of the Siskiyou Training & Employment Program, Inc. (STEP): SFCI is versioned as offering SEDD and its partner Counties a fully 'staffed and maintained Geographic Information System (GIS) as a GIS service center. Furthermore SFCI will provide its trainees a fair wage based on a 40-hour work week, and Community College credits in GIS and the natural resource sciences. It is also planned the SFCI trainees will receive education in small business management so that they might become self-sufficient.

560 WALL ST.

SUITE F

AUBURN

CALIFORNIA

95603-3931

PH 530-823-4703

FAX 530-823-4142

WWW.SEED.ORG

Governmental Notice
May 11,2000



SERVING EL DORADO,
NEVADA, PLACER,
AND SIERRA
COUNTIES

private contractors after they complete their program with SFCI. Our goal is for SFCI to become a fully self-supporting entity within a three-year time frame. By chartering the SFCI, as a tool to implement watershed/ecosystem assessment and monitoring protocols, SEDD's stated goal to "Build a collaborative regional forum to organize business, education, community, and government leadership around initiatives that promote the long-term economic health and quality of life in the region." will be carried out.

For more specific information on this grant request you are referred to contact:

CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, CA 95814
Ph# (916) 657-2666
Email: ecopsp@water.ca.gov

Thank you for taking the time to review our application for a grant from the CALFED Bay-Delta Program. Should you have any questions or require further explanation of SFCI, please call me at (530) 823-4703.

Sincerely,

Tom Amesbury
Forester, Wood Utilization Coordinator

Cc: Betty Riley, SEDD President

560 WALL ST.
SUITE F
AUBURN
CALIFORNIA
95603-3931
PH 530-823-4703
FAX 530-823-4142
WWW.SEED.ORG

CALFED Governmental Grant Application Notice mailing List

Name	Title	Dcpt	Address	City	State	Zip
Steve Eubanks	Supervisor	US Forest Service	PO Box 6003	Nevada City	CA	95959
Frank Mosbacher	Supervisor	US Forest Service	100 Forni Road	Placerville	CA	95667
Jim Marceau	Unit Ranger	CDF	13760 Lincoln Way	Auburn	CA	95603
George Osbome	Unit Ranger	CDF	2840 Mt. Danaher Rd	Camino	CA	95709
Carlos Urritia	City Manager	City of Rocklin	PO Box 1380	Rocklin	CA	95677
Paul Ogden	City Manager	City of Auburn	1225 Lincoln Way	Auburn	CA	95603
Gene Haroldson	City Manager	City of Grass Valley	City Hall, 125 E. Main St	Grass Valley	CA	95945
Beryl Robinson	City Manager	City of Nevada City	317 Broad Street	Nevada City	CA	95959
Dana Bowman	City Manager	City of Placerville	487 Main Street	Placerville	CA	95667
Robert Hight	Director	Dept of Fish & Game	1416 Ninth Street	Sacramento	CA	95814
Georgia Flake	County Clerk	Placer Co Clerks Office	175 Fulweiler Ave	Auburn	CA	95603
Mary J Jungi	County Clerk	Sierra Co Clerks Office	PO Box D	Downieville	CA	95936
Cathy Thompson	County Clerk	Nevada Co Clerks Office	950 Maidu Ave	Nevada City	CA	95949
Dixie Foote	County Clerk	El Dorado County Clerks Office	360 Fair Lane, Bldg B	Placerville	CA	95667

Environmental Compliance Checklist

All applicants must fill out this Environmental Compliance Checklist. Applications must contain answers to the following questions to be responsive and to be considered for funding. *Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.*

1. Do any of the actions included in the proposal require compliance with either the California Environmental Quality Act (CEQA), the National Environmental Policy Act (NEPA), or both?

YES

XX
NO

2. If you answered yes to # 1, identify the lead governmental agency for CEQA/NEPA compliance.

Lead Agency _____

3. If you answered no to # 1, explain why CEQA/NEPA compliance is not required for the actions in the proposal. The activities of the Sierra Forest Communities Institute will be primarily in Watershed/Ecosystem assessment and monitoring ground truth data collection. If specific contract projects are implemented by SFCI that require CEQA/NEPA compliance, the contract landowner organization will be responsible for obtaining the required CEQA/NEPA permits from the appropriate state or federal agency prior to SFCI contract involvement.

4. If CEQA/NEPA compliance is required, describe how the project will comply with either or both of these laws. Describe where the project is in the compliance process and the expected date of completion.

5. Will the applicant require access across public or private property that the applicant does not own to accomplish the activities in the proposal?

YES

NO

If yes, the applicant must attach written permission for access from the relevant property owner(s). Failure to include written permission for access may result in disqualification of the proposal during the review process. Research and monitoring field projects for which specific field locations have not been identified will be required to provide access needs and permission for access with 30 days of notification of approval.

SFCI personnel will require written permission for private/public property access to complete anticipated Watershed/Ecosystem assessment and monitoring ground truth data collection contract work. Discussions have been initiated with the USFS that will establish "Participative Agreements" with both the El Dorado and Tahoe National Forest. for SFCI to function under for the purposes of public land access. Permission for private and or other public land access will be authorized in the specific contract duty requirements for all contracts entered into between SFCI and the private/public contract organization. Notification of field-work access permission will be made available to CALFED within 30 days of signature of said Watershed/Ecosystem assessment and monitoring ground truth data collection contracts.

6. Please indicate what permits or other approvals may be required for the activities contained in your proposal. Check all boxes that apply.

LOCAL

Conditional use permit	<input checked="" type="checkbox"/>
Variance	<input type="checkbox"/>
Subdivision Map Act approval	<input type="checkbox"/>
Grading permit	<input type="checkbox"/>
General plan amendment	<input type="checkbox"/>
Specific plan approval	<input checked="" type="checkbox"/>
Rezone	<input type="checkbox"/>
Williamson Act Contract cancellation	<input type="checkbox"/>
Other _____ (please specify)	
None required	<input type="checkbox"/>

STATE

CESA Compliance	<input type="checkbox"/> (CDFG)
Streambed alteration permit	<input checked="" type="checkbox"/> (CDFG)
CWA § 401 certification	<input type="checkbox"/> (RWQCB)
Coastal development permit	<input type="checkbox"/> (Coastal Commission/BCDC)
Reclamation Board approval	<input type="checkbox"/>
Notification	<input type="checkbox"/> (DPC, BCDC)
Other _____ (please specify)	
None required	<input type="checkbox"/>

FEDERAL

ESA Consultation	<input checked="" type="checkbox"/> (USFWS)
Rivers & Harbors Act permit	<input type="checkbox"/> (ACOE)
CWA § 404 permit	<input type="checkbox"/> (ACOE)
Other _____ (please specify)	
None required	<input type="checkbox"/>

DPC = Delta Protection Commission

CWA = Clean Water Act

CESA = California Endangered Species Act

USFWS = U.S. Fish and Wildlife Service

ACOE = U.S. Army Corps of Engineers

ESA = Endangered Species Act

CDFG = California Department of Fish and Game

RWQCB = Regional Water Quality Control Board

BCDC = Bay Conservation and Development Comm.

Land Use Checklist

All applicants must fill out this Land Use Checklist for their proposal. Applications must contain answers to the following questions to be responsive and to be considered for funding. Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.

1. Do the actions in the proposal involve physical changes to the land (i.e. grading, planting vegetation, or breaching levees) or restrictions in land use (i.e. conservation easement or placement of land in a wildlife refuge)?

XX
YES

NO

2. If NO to # 1, explain what type of actions are involved in the proposal (i.e., research only, planning only).

3. If YES to # 1, what is the proposed land use change or restriction under the proposal?

It is anticipated that some of the contractual Watershed/Ecosystem improvement activities undertaken by the staff and trainees of the Sierra Forest Communities Institute will involve restoration practices such as planting of vegetation, watercourse habitat improvements, prescribed burning, and noxious weed eradication (to mention a few) that will offer changes to the land.

4. If YES to # 1, is the land currently under a Williamson Act contract?

XX
YES

XX
NO

5. If YES to # 1, answer the following:

Specific contract field projects implemented by SFCI may involve land that is zoned under the Williamson Act. Because specific field project contracts remain to be developed, a specific answer to this question remains unknown at the time of grant application.

Current land use

Current zoning

Current general plan designation

6. If YES to #1, is the land classified as Prime Farmland, Farmland of Statewide Importance or Unique Farmland on the Department of Conservation Important Farmland Maps?

YES

NO

XX
DON'T KNOW

7. If YES to # 1, how many acres of land will be subject to physical change or land use restrictions under the proposal?

Because specific SFCI field project contracts remain to be developed, a specific answer to this question remains unknown at the time of grant application.

8. If YES to # 1, is the property currently being commercially farmed or grazed?

YES

NO

XX
DON'T KNOW

9. If YES to #8, what are:

the number of employees/acre _____
the total number of employees _____

10. Will the applicant acquire any interest in land under the proposal (fee title or a conservation easement)?

YES

XX
NO

11. What entity/organization will hold the interest? N/A

12. If YES to # 10, answer the following:

Total number of acres to be acquired under proposal
Number of acres to be acquired in fee
Number of acres to be subject to conservation easement

13. For all proposals involving physical changes to the land or restriction in land use, describe what entity or organization will:

Manage the property

Provide operations and maintenance services

Conduct monitoring

The land owning organization.

The land owning organization.

The land owning organization, unless otherwise
specified in the field project contract
implemented by SFCL.

14. For land acquisitions (fee title or easements), will existing water rights also be acquired?

YES

XX
NO

15. Does the applicant propose any modifications to the water right or change in the delivery of the water?

YES

XX
NO

16. If YES to # 15, describe _____

NONDISCRIMINATION COMPLIANCE STATEMENT

STD. 19 (REV. 3-95)

COMPANY NAME

Sierra Forest Communities Institute

The company named above (hereinafter referred to as "prospective contractor"?) hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), medical condition (cancer), age (over 40), marital status, denial of family care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME

Betty Riley

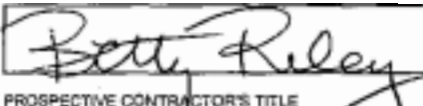
DATE EXECUTED

May 15, 2000

EXECUTED IN THE COUNTY OF

Placer County

PROSPECTIVE CONTRACTOR'S SIGNATURE



PROSPECTIVE CONTRACTOR'S TITLE

President of the Board of Directors

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

Sierra Forest Communities Institute

OMB Approval No. 0348-0043

Standard Form 424 (Rev. 7-97)
Prescribed by OMB Circular A-102

EXPENSE BREAKOUT YEAR 1

Project Management

Personnel		Hours	Rate	Salary	Benefits	Travel	Supplies	Service Contract	Overhead	Equipment	Total
Coordinator	Tom Amesbury	20/mo	\$48.5/hr					\$ 11,640.00	\$ 1,164.00		
Norcet Advisory	Larry Alexander	5/mo	\$48.5/hr					\$ 2,910.00	\$ 291.00		
President/CEO	Betty Riley	10/mo	\$30/hr	\$ 3,600.00	\$ 1,080.00						\$ 1,080.00
Grants Coordinator	Diane Wood	20/mo	\$16/mo	\$ 3,840.00	\$ 1,152.00						\$ 1,152.00

Project Management Total				\$ 7,440.00	\$ 2,232.00	\$ 2,400.00	\$ 1,200.00	\$ 14,550.00	\$ 1,557.00	\$ 2,400.00	\$ 21,859.00
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Task 1 - GIS Service Center

Coordinator	Tom Amesbury	20/mo	\$48.5/hr					\$ 11,640.00	\$ 1,164.00		
Norcet Advisory	Larry Alexander	5/mo	\$48.5/hr					\$ 2,910.00	\$ 291.00		
President/CEO	Betty Riley	10/mo	\$30/hr	\$ 3,600.00	\$ 1,080.00						\$ 1,080.00
Network/Software Service	Haldane Computer	10/mo	\$65/hr					7,800.00			

Task 1 Total				\$ 3,600.00	\$ 1,080.00	\$ 1,500.00	\$ 2,400.00	\$ 24,350.00	\$ 2,435.00	\$ 2,400.00	\$ 35,665.00
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Task 2 - Contract Work Implementation

Coordinator	Tom Amesbury	20/mo	\$48.5/hr					\$ 11,640.00	\$ 1,164.00		
Norcet Advisory	Larry Alexander	5/mo	\$48.5/hr					\$ 2,910.00	\$ 291.00		
President/CEO	Betty Riley	5/mo	\$30/hr	\$ 1,800.00	\$ 540.00						\$ 540.00
GIS Staff		20/week	\$17/hr	\$ 17,680.00	\$ 4,420.00						\$ 4,420.00
Intern Salaries	6 Students (9mo)	40/week	\$12/hr	\$ 112,320.00	\$ 28,080.00						\$ 11,232.00
Temp Employees	12 for 6 mo	40/week	\$11/hr	\$ 137,280.00	\$ 34,320.00						\$ 13,728.00

Task 2 Total				\$ 269,080.00	\$ 37,380.00	\$ 1,500.00	\$ 2,400.00	\$ 14,550.00	\$ 1,557.00	\$ 2,400.00	\$ 348,097.00
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Task 3 - Marketing, Outreach & Training

Coordinator	Tom Amesbury	20/mo	\$48.5/hr					\$ 11,640.00	\$ 1,164.00		
Norcet Advisory	Larry Alexander	5/mo	\$48.5/hr					\$ 2,910.00	\$ 291.00		
GIS Staff		20/week	\$17/hr	\$ 17,680.00	\$ 4,420.00						\$ 5,304.00
President/CEO	Betty Riley	5/mo	\$30/hr	\$ 1,800.00	\$ 540.00						\$ 540.00
Web Maintenance								\$ 10,000.00			
Contract Training Services								\$ 40,000.00			

Task 3 Total				\$ 19,480.00	\$ 4,960.00	\$ 1,500.00	\$ 2,400.00	\$ 24,540.00	\$ 2,495.00	\$ 2,400.00	\$ 100,109.00
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Total Cost Per Year				\$ 299,600.00	\$ 75,632.00	\$ 4,750.00	\$ 8,400.00	\$ 116,000.00	\$ 44,896.00	\$ 93,950.00	\$ 643,228.00
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EXPENSEBREAKOUT YEAR 2

Project Management

Personnel		Hours	Rate	Salary	Benefits	Travel	Supplies	Service Contract	Overhead	Equipment	Total
Coordinator	Tom Amesbury	20/mo	\$48.5/hr					\$ 11,640.00	\$ 1,164.00		
Norcet Advisory	Larry Alexander	5/mo	\$48.5/hr					\$ 2,910.00	\$ 291.00		
PresidenVCEO	Betty Riley	10/mo	\$30/hr	\$ 3,600.00	\$ 1,080.00				\$ 1,080.00		
Grants Coordinator	Diane Wood	20/mo	\$16/mo	\$ 3,840.00	\$ 1,152.00				\$ 1,152.00		

Project Management Total \$ 22,400.00 \$ 3,312.00 \$ 1,250.00 \$ 1,200.00 \$ 11,650.00 \$ 3,687.00 \$ - \$ 29,359.00

Task 1 - GIS Service Center

Coordinator	Tom Amesbury	20/mo	\$48.5/hr					\$ 11,640.00	\$ 1,164.00		
Norcet Advisory	Larry Alexander	5/mo	\$48.5/hr					\$ 2,910.00	\$ 291.00		
PresidenVCEO	Betty Riley	10/mo	\$30/hr	\$ 3,600.00	\$ 1,000.00				\$ 1,000.00		
Network/Software Service	Haldane Computer!	10/mo	\$65/hr					\$ 7,800.00			

Task 1 Total \$ 23,600.00 \$ 2,100.00 \$ 1,500.00 \$ 2,400.00 \$ 22,350.00 \$ 2,635.00 \$ - \$ 39,415.00

Task 2 - Contract Work Implementation

Coordinator	Tom Amesbury	20/mo	\$48.5/hr					\$ 11,640.00	\$ 1,164.00		
Norcet Advisory	Larry Alexander	5/mo	\$48.5/hr					\$ 2,910.00	\$ 291.00		
PresidenVCEO	Betty Riley	5/mo	\$30/hr	\$ 1,800.00	\$ 540.00				\$ 540.00		
GIS Staff		20/week	\$17/hr	\$ 17,600.00	\$ 4,420.00				\$ 4,420.00		
Intern Salaries	6 Students	40/week	\$12/hr	\$149,760.00	\$ 37,440.00				\$ 14,976.00		
Temp Employees	18 for 6 mo	40/week	\$11/hr	\$205,920.00	\$ 51,480.00				\$ 20,592.00		

Task 2 Total \$375,160.00 \$ 83,680.00 \$ 1,500.00 \$ 2,400.00 \$ 104,580.00 \$ 11,903.00 \$ - \$ 529,473.00

Task 3 - Marketing, Outreach & Training

Coordinator	Tom Amesbury	20/mo	\$48.5/hr					\$ 11,640.00	\$ 1,164.00		
Norcet Advisory	Larry Alexander	5/mo	\$48.5/hr					\$ 2,910.00	\$ 291.00		
GIS Staff		20/week	\$17/hr	\$ 17,680.00	\$ 4,420.00				\$ 5,304.00		
PresidenVCEO	Betty Riley	5/mo	\$30/hr	\$ 1,800.00	\$ 540.00				\$ 540.00		
Web Maintenance								\$ 10,000.00			
Contract Training Services								\$ 40,000.00			

Task 3 Total \$ 29,160.00 \$ 5,560.00 \$ 1,500.00 \$ 2,400.00 \$ 61,550.00 \$ 7,299.00 \$ - \$ 104,169.00

Total Cost Per Year \$405,680.00 \$ 102,152.00 \$ 4,750.00 \$ 8,400.00 \$ 116,000.00 \$ 55,504.00 \$ - \$ 692,486.00

SOURCES AND USES

REVENUE

	YEAR 1		YEAR 2		TOTAL		TOTAL PROJECT
	Grant	Contracts	Grant	Contracts	Grant	Contract	
Grant	\$371,779.00		\$207,748.00		\$579,525.00		\$ 579,525.00
Contracts Fees		\$275,000.00		\$ 500,000.00		\$775,000.00	\$ 775,000.00
TOTAL	\$371,779.00	\$275,000.00	\$207,748.00	\$ 500,000.00	\$579,525.00	\$775,000.00	\$1,354,525.00
EXPENSES							
Personnel	\$138,152.00	\$161,448.00	\$121,704.00	\$ 283,956.00	\$ 259,856.00	\$445,404.00	\$ 705,260.00
Benefits	\$ 35,216.00	\$ 40,416.00	\$ 30,646.00	\$ 71,506.00	\$ 65,862.00	\$111,922.00	\$ 177,784.00
Travel	\$ 3,850.00	\$ 900.00	\$ 1,425.00	\$ 3,325.00	\$ 5,275.00	\$ 4,225.00	\$ 9,500.00
Supplies	\$ 6,000.00	\$ 2,400.00	\$ 2,520.00	\$ 5,880.00	\$ 8,520.00	\$ 8,280.00	\$ 16,800.00
Service Contracts	\$ 68,540.00	\$ 47,460.00	\$ 34,800.00	\$ 73,400.00	\$103,340.00	\$120,860.00	\$ 224,200.00
Overhead	\$ 26,071.00	\$ 18,825.00	\$ 16,651.00	\$ 38,853.00	\$ 42,722.00	\$ 57,678.00	\$ 100,400.00
Equipment	\$ 93,950.00	\$ -	\$ -	\$ -	\$ 93,950.00	\$ -	\$ 93,950.00
TOTAL	\$371,779.00	\$271,449.00	\$207,746.00	\$ 476,920.00	\$579,525.00	\$748,369.00	\$1,327,894.00
Percent of Total	57.8%	42.2%	30.3%	70.0%	43.6%	56.4%	100%

#30



S I E R R A

E C O N O M I C

D E V E L O P M E N T

D I S T R I C T

SERVING EL DORADO,

NEVADA, PLACER

AND SIERRA

COUNTIES

May 10, 2000

CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, CA 95814

Re: Sierra Forest Communities Institute 2001 CALFED Bay-Delta Program Grant Application.

Dear Grant Review Committee;

The Sierra Economic Development District (SEDD) offers enthusiastic support for the creation of the Sierra Forest Communities Institute (SFCI). The vision of fostering rural County economic development through natural resource vocational workforce training has been a long-standing goal for SEDD. SEDD plans to be the fiscal sponsor for SFCI and has committed future resources necessary for the creation and sustenance of SFCI. In fact SEDD has provided the funding for SFCI to become a private non-profit organization (501(c)3) organization and the manpower needed to pursue grant opportunities such as the CALFED Bay-Delta program. Upon the successful finding and establishment of SFCI, it is anticipated that many of the Counties within SEDD's administrative region will undertake M.O.U. agreements with SFCI for the continuous refinement and improvement of our regions GIS data base.

We are confident that the CALFED Grant Review Committee will find merit in SFCI by fully funding the 2001 grant request submitted in response to your PSP. Our rural County citizens and our beautiful Sierra Mountain environment will be well served through the creation and work projects accomplished through SFCI.

Sincerely,

Betty Riley
President

Sierra Economic Development District

560 WALL ST

SUITE F

AUBURN

CALIFORNIA

95603-3931

PH 530-823-4703

FAX 530-823-4142

WWW.SEED.ORG

Cc: Betty Riley, SEDD President..

31

Robinson Enterprises Inc.

Telephone (530) 265-5844
293 Lower Grass Valley Road
Suite 201 Nevada City, CA 95959



TIMBER

ROAD BUILDING

LOGGING CONTRACTS

May 8, 2000

Betty Riley
Sierra Economic Development District
560 Wall Street
Auburn, CA 95603

Dear Betty:

Thank you for the update regarding the progress of the formation of the Sierra Forest Communities Institute (SFCI). I look forward to assisting in the implementation of a program to collect and quantify scientific data relative to our region of the Sierra Nevada. We desperately need some good science in order to make professional decisions about land use in the Sierras.

Also, the forest products industry, specifically the logging sector, must be able to provide a longer work season for their employees. I look forward to SFCI organization as a vehicle to foster the growth and development of persons employed in the forest products industries.

Again, I look forward to serving in an advisory capacity while the SFCI is getting started

Very Truly Yours,


Joe Griggs, Jr.



Linking Workforce Preparation To Economic Development

March 29, 2000

Betty Riley
Sierra Economic Development District
560 Wall St.
Suite f
Auburn, Ca. 95603

Dear Betty:

I enjoyed my visit and meetings with you and Tom Amesbury. It gave me a better understanding of our respective needs and interests. It is very exciting that we share the same vision in terms ~~of~~ technical training in the field of natural resources and how this' ~~can~~ help develop and stabilize local and regional economic development.

The Northern California Ecosystem Training Center, being a successful private non-profit natural resource ~~training center~~ in Siskiyou County, is in total support of your development of the Sierra Forest Communities Institute.

Based on our results and the market studies we have accomplished, there is a tremendous market and ~~need for~~ the development of highly skilled natural resource technicians and independent contractors throughout the Northern California Region.

We are available to assist and support your development of the Sierra Forest Communities Institute through collaborations, and advisory efforts or any other way that may be appropriate.

Looking forward to your development ~~of~~ the the Sierra Forest Communities Institute' and what it ~~can~~ mean to the areas economic development.

Sincerely,

Larry Alexander
Northern California Ecosystem Training Center (NorCET)

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HIGH SIERRA RESOURCE CONSERVATION & DEVELOPMENT AREA

251 AUBURN RAVINE ROAD, SUITE 201, AUBURN, CALIFORNIA 95603

TELEPHONE: (916) 823-5687

May 11, 2000

CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, CA 95814

Re: Sierra Forest Communities Institute (SFCI) CALFED Bay-Delta Program Grant Application.

Dear Grant Review Committee;

Please be informed that High Sierra Resource Conservation and Development Area is in complete support of the founding of a natural resource vocational workforce-training program. We believe that the efforts to found and implement SFCI will fill an employment void for GIS trained resource technicians. The collaborative effort undertaken by the Sierra Economic Development District in the founding of SFCI will assure that our region will be well served by the future environmental projects undertaken by SFCI.

It is our understanding that trainees completing each semester of this program will be eligible for community college credits which will also be transferable to both state and university institutions. This natural resource "on the job" training aspect of SFCI will pay long-term dividends to the trainees and rural forest communities in which they live.

Thank you for funding the Sierra Forest Communities Grant request. Watershed/ecosystem assessments and monitoring will be best accomplished by employing the human resources of the local communities.

Sincerely,

Robert Roan, Project Coordinator
High Resource Conservation & Development Area

#34



...A Workforce Connection Partner

April 11, 2000

Betty Riley
Sierra Economic Development District
560 Wall Street
Auburn, CA 95603

Dear Betty,

I spoke with Larry Alexander and Dave LaPlante from our NorCET Training Center about your visit with them in March. They were both very excited about the possibility of working with you and your partners as you begin development of your own training facility.

As I am sure you are aware, NorCET is a division of Siskiyou Training & Employment Program, Inc. (STEP), which is a private non-profit agency that operates with JTPA funds. While the center is fiscally self-sufficient, all work done must have a training component. The goals of the center include providing the interns with a diversified package of training opportunities with a focus on the technical aspects of forest restoration and rehabilitation. Our primary goal is to train the interns to become independent contractors so they will in turn become employers in the natural resource field.

As with any new programs, it is always helpful to hear about the growing pains others suffered so maybe you won't have to. While we are very pleased with the center, we have surely experienced many challenges along the way. Kathy Suvia, Executive Director of STEP and/or myself would be happy to work with you on the administrative aspects of your program. We have both participated in the evolution of the Jobs In The Woods, Ecosystem Management programs since 1993 with the State Community Economic Revitalization Team (CERT).

Please don't hesitate to contact us if we can be of some assistance to you. We look forward to hearing about your progress.

Sincerely,

Joyce Zwanziger
Community Outreach Manager



SFCI

19855 Barton Hill Road, Strawberry Valley, CA 95981-9700
Phone (530) 675-2343
Fax (530) 675-0843

April 13, 2000

Mr. Tom Amesbury
Foresters Co-op
10607 Dolores Dr.
Grass Valley, CA 95945

Dear Tom:


Thank you for your letter of March 10, 2000 and the follow-up phone conversations concerning the Sierra Forest Communities Institute (SFCI).

We have talked about possible involvement of our company in the venture and wonder if there is enough demand for loggers to justify the effort. However, at the same time we recognize the importance of training and full time employment for those who complete the training. We think that what you are attempting is a worthy project and commend you for trying.

As to involvement of our company in the project, I am afraid that we will have to take a "back seat" on this project. We are currently spread so thin on a number of other worthy projects that we can't see the time available to get involved. However, if the project develops to the point where you see an opportunity for limited support from our company, please feel free to contact me.

Thanks again for the consideration

Sincerely yours,


H. James Holmes, President

#36

ELIZABETH A. RILEY

PROFESSIONAL EXPERIENCE

1998 – ~~Present~~ Sierra Planning & Economic Development Auburn, CA
President/CEO

- Supervise the preparation and implementation of ~~planning~~ and development programs and projects
- Develop ~~partnerships~~ with multiple agenaes and organizations to deliver business development services
- Administer federal, state, and foundation ~~grants~~ and local ~~contracts~~ with annual operating budget of over \$600,000

1992 – 1998 Sierra Planning & Economic Development Auburn, CA
Executive Director

- Work with local ~~jurisdictions~~ and economic development commissions in a ~~four~~ county region to develop sound goals, policies, strategies and implementation techniques for economic development
- Developed guidelines for administering regional small business revolving loan fund program and accessing over \$2 million in gap ~~financing~~
- Instrumental in the establishment of a California Hardwood Industry
- Instigated program to study ~~feasibility~~ of developing a biomass industry for the Sierra Nevada Region

1989 – 1992 ~~Sierra~~ Planning & Economic Development Auburn, CA
Economic Analyst

- Performed grant research and prepared grant applications ~~for~~ community and economic development
- Compiled, analyzed and formatted for publication statistical reports
- Computerized booking and payroll system

1986 – 1989 M.E.S.H. Industries Socorro, NM
Owner/Manager

- Started company to manufacture and market recreational vehicle speaalty products developed by spouse

EDUCATION

University of California, Davis, CA
B.S. ~~Early~~ Childhood Education – ~~Emphasis~~ on Child and Human Development with additional coursework in Economics, Math, ~~Sociology~~ and Sciences

ELIZABETH A. RILEY

PROFESSIONAL AFFILIATIONS

Director, **Sierra** Forest Communities Institute, **January** 2000 – Present

Director, **American** River Watershed Institute, October 1998 – Present

Member of Board of Directors, National Assodation of Development Organizations, October 1993 to Present

Member, California Rural Development Council, September 1998 – Present

President, California Assodation Resource Conservation and Development **Council**, 1997-1999

Legislative Chair, California Association Resource Conservation and Development Council, 1999-Present

Senate Rules Committee Appointee, Rural Economic Development Infrastructure Panel, 1997 – Present

Chair, High **Sierra** Resource Conservation and Development Council, 1995 – present

Member, of Board of Directors, El Dorado County Job One, 1998 – Present

Member of Board of Directors, Nevada County Economic Resource Council, 1995 – Present

Member of Private Industty Council, Golden SierraJTA, 1993 – 2000

Foresters Co-op Tom Amesbury



10607 Dolores Dr., Grass Valley, CA 95945
Office phone (530) 273-8326 - e-mail: amesingv@calweb.com

Company Mission Statement

The Foresters Co-op is a professional consulting Company with goals to build a multidisciplinary professional team approach to achieve the highest **quality** workmanship within the forestry/environmental land management planning service industry. The Foresters Co-op shall; 1) Offer a superior return for the clients timberland investment dollar. 2) Deliver professional and technical Forestry services efficiently and on time. 3) Promote **long** term sustainable forest management practices that will insure that Foresters Co-op clientele will receive the maximum benefits from all of their forest resources.

Typical Services Provided by the Foresters Co-Op

- Preparation of long term forest land management plans.
- Watershed assessment, project impacts analysis, and long term monitoring.
- Implement GIS (Geographic Information System) programs to optimize the landscape planning process and produce high quality, accurate land management maps.
- Preparation of Timber Harvest Plans (THP) and logging administration. In California, if trees are to be harvested for commercial purposes, a THP must be prepared for review and approval by state agencies.
- Measuring standing timber volume and appraising its market value.
- Biomass to Bioenergy plant development and associated feedstock surveys and valuation.
- Monitoring and assessing forest health, and developing management strategies for protecting the forest ~~from~~ insects, disease and wildfire.
- Marketing of forest products.
- Archaeological Surveys of forested lands.
- Planning and supervision of "CFIP" and "SIP" state funded cost-share forest land improvement projects.
- Providing expert testimony during litigation.

Professional Experience

Alpine Land Information Services
5520 Mountain View Dr.
Redding, CA 96003, ph#(530) 244-8600.
Consulting Forester

Applied Forest Management/The **CHY** Company
200 Litton Dr. #210, Grass Valley
CA 96945, ph#(530) 274-6451
Forester

Cal Oak Lumber Company
Oroville, CA
Forester

Tom Amesbury References

Dave ~~Baker~~, Sonora District Manager
Sierra Pacific Industries
P O Box 247
Standard, CA 95373
(209) 532-7141

Dennis Parker, Manager
Yuba County Water District
P. O. Box 299
Brownsville, CA 95919
(530) 675-2567

Keith Chambers, Timberland Manager
Applied Forest Management
200 Litton Dr., #210
Grass Valley, CA 95945
(530) 274-6451

Betty Riley, President
Sierra Economic Development District
560 Wall St., Suite F
Auburn, CA 95603-3931
(530) 823-4703

Tom Amesbury Education/Certificates

Registered Professional Forester #2253
Archaeological Training Certificate #62R
BS - Forestry - University of California, Berkeley
AA - Land Surveying - Shasta Junior College, Redding
USFS - Log Sealing and Grading Certificate - Modoc NF

LARRY ALEXANDER
P.O. Box 146
Fort Jones, Calif. 96032
916-467-5123

EDUCATION:

- **Fort Jones High School, Fort Jones, Ca. Graduated 1964**
- **College of the Siskiyous, ~~Weed~~, Ca. 1964-1966**
- **California State University Chico, Chico, Ca. Graduated 1970, B.A. Degree Biological Science.**

Professional Training:

- **Ramada Inn Corp. 1970-1981**
 - **Ramada Inn Management institute.**
 - **Ramada Inn Management Institute Sales and Marketing.**
- **Sea Galley and Mother Tucker's Restaurant Corp. 1981-1989**
 - **Sea Galley Management Institute.**
 - **Mother Tucker Management Institute.**
- **U.S. Forest Service 1989-1996**
 - **Classification of Natural Rivers and Application to Forest and Range Management (Dave Rosgen).**
 - **~~Watershed~~ Restoration, National Park Service, Redwood National Park.**
 - **Mineral Administration and Environmental Management.**
 - **Cultural Resource Management-Certified Archaeological Surveyor.**
 - **Wildland Fire Investigation.**
 - **Fire Prevention Management.**
 - **Level II Law Enforcement.**
 - **S-230 Fire Crew Supervision**
 - **S-270 Air Operations.**
 - **S-390 Fire Behavior.**

EMPLOYMENT HISTORY:

- 1996 - Present: Siskiyou Training and Employment Program - Coordinator**
College of the Siskiyous - Adjunct Faculty
- **Coordinator and Instructor for the Northern California Ecosystem ~~Training~~ Center.**
 - **College of the Siskiyous, Adjunct Faculty instructor for Natural Resources.**

1989 - 1996: U.S. Forest Service, Klamath National Forest, Salmon River Ranger District
Hydrology

- **Project leader** of the Watershed Improvement Needs Inventory (WINI) Program.
- Watershed **analysis**.
- Watershed **rehabilitation**.
- **Project development** and implementation.
- **Channel classification** and **typing**.
- Associated duties included various fire fighting **positions** and fire rehabilitation.

1970 - 1989: Ramada Hotel Corp., Sea Galley and Mother Tucker's Restaurant Corp.
Management

- **All phases** of hotel **and** restaurant management.
- Responsible **for** developing and guiding the food and beverage programs **for** all U.S.A. **and** Canadian hotels and **restaurants**.
- Duties included employee training and supervision, menu development, **costing**, **product** development, **sales** and marketing, and restaurant design and development.

ARTICLES OF INCORPORATION
OF
Sierra Forest Communities Institute
A CALIFORNIA PUBLIC BENEFIT CORPORATION

ONE: The name of this corporation is Sierra Forest Communities Institute.

TWO: This corporation is a nonprofit public benefit corporation and is not organized for the private gain of any person. It is organized under the Nonprofit Public Benefit Corporation Law for charitable purposes. The specific purposes for which this corporation is organized are to develop an institution to conduct forest practice and stewardship research, to disseminate educational material to the public including, but not limited to, material relating to forest stewardship techniques and community development and provide forest worker skills training.

THREE: The name and address in the State of California of this corporation's initial agent for service of process is:

Sierra Economic Deveipment District
Betty Riley, President
Office address of registered agent:: 560 Wall Street, Suite F, Auburn, CA,
95601.

FOUR: (a) This corporation is organized and operated exclusively for research, public education and worker training purposes within the meaning of Section 501(c)(3) of the Internal Revenue Code.

(b) Notwithstanding any other provision of these Articles, the corporation shall not carry on any other activities not permitted to be carried on (1) by a corporation exempt from federal income tax under Section 501(c)(3) of the Internal Revenue Code or (2) by a corporation contributions to which are deductible under Section 170(c)(2) of the Internal Revenue Code.

(c) No substantial part of the activities of this corporation shall consist of carrying on propaganda, or otherwise attempting to influence legislation, and the corporation shall not participate or intervene in any political campaign (including the publishing or distribution of statements) on behalf of, or in opposition to, any candidate for public office.


FIVE: The names and addresses of the persons appointed to act as the initial Directors of this corporation are:

Name	Address
Betty Riley	560 Wall St. Suite F, Auburn CA, 95603


SIX: The property of this corporation is irrevocably dedicated to research, education and training and no part of the net income or assets of the organization shall ever inure to the benefit of any director, officer or member thereof or to the benefit of any private person.

On the dissolution or winding up of the corporation, its assets remaining after payment of, or provision for payment of, all debts and liabilities of this corporation, shall be distributed to a nonprofit fund, foundation, or corporation which is organized and operated exclusively for research, education and training which has established its tax-exempt status under Section 501(c)(3) of the Internal Revenue Code.

Date: February 15, 2000


Betty Riley, Director

We, the above-mentioned initial directors of this corporation, hereby declare that we are the persons who executed the foregoing Articles of Incorporation, which execution is our act and deed.


Betty Riley, Director

Foresters Co-op



Grass Valley

CALFED "SFCP" Grant Application Attachment, "Sample Project" Traverse Creek Watershed Cumulative Impact Project May 15, 2000

Background and General Description

The Traverse Creek watershed is a mid-elevation Sierran forest ecosystem. This is a State defined planning watershed of approximately 9,379 acres is located South of Georgetown in El Dorado County. Over the past nine years the Community residents and public agencies within the watershed have organized (under a signed Memo of Understanding) to develop a forest health and fire fuels reduction plan. The project was initiated to address the accumulation of biomass fuel loads that constitute an increasing threat to public and private forests in the mid-elevation ranges of the Sierras. A grant from the USDA Forest Service was used to establish the MOU and initiate the cumulative impact assessment analysis. CDF-FRAP has recently pledged additional funding that will allow a more thorough watershed assessment and consequently a more complete cumulative impact assessment.

Ownership within the watershed is approximately 20% public (USFS & BLM) with the remaining being small private parcels of between 5 to 80 acres in size, numbering near 800 individual owners. This ownership pattern is problematic with regards to access for data collection and eventual fuels reduction practices.

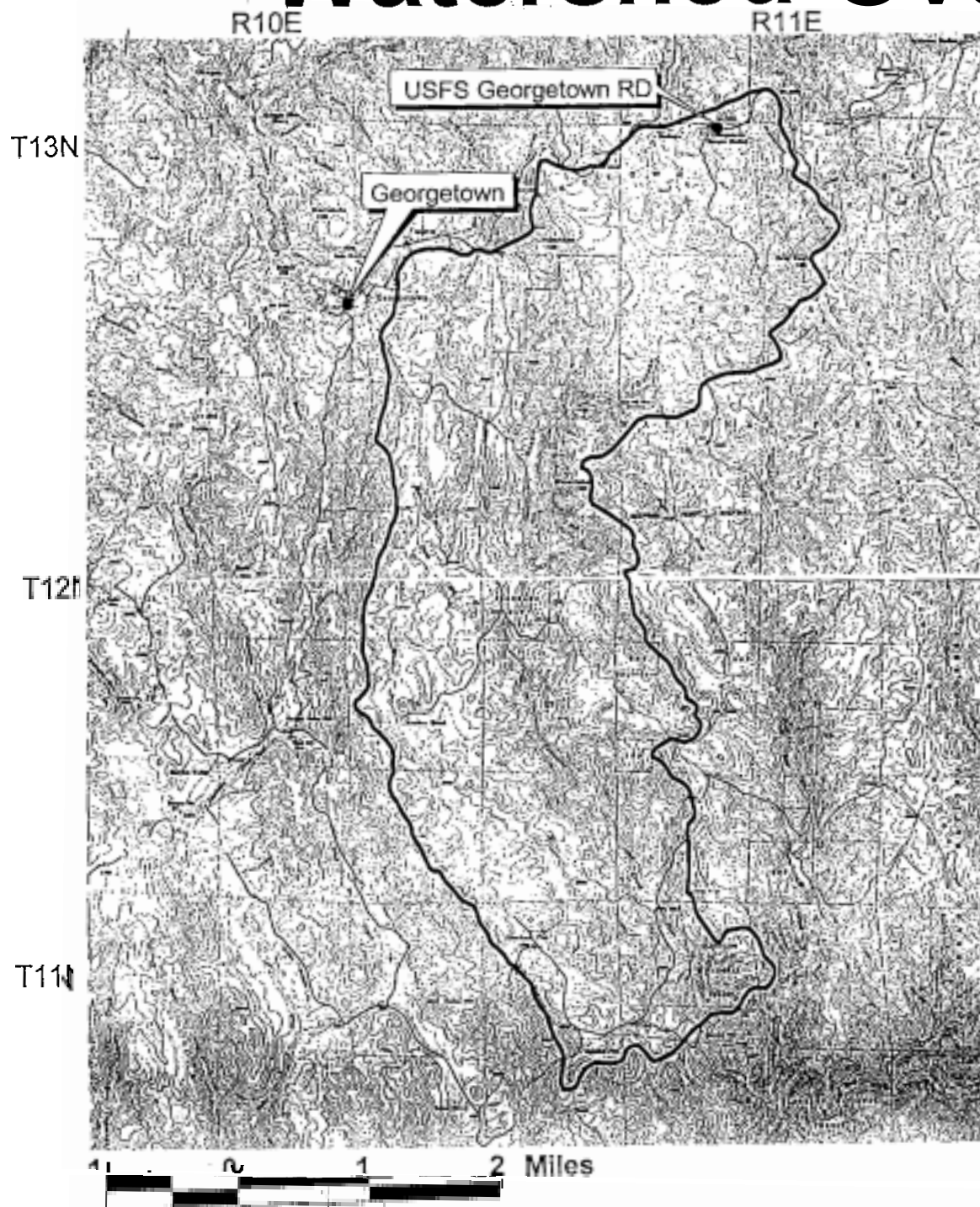
It is expected that the GIS development and cumulative impacts assessment deliverables of this project will be utilized by the watershed owners as background data for them to pursue their own site specific fuel reduction management plans and implementation. Specific products will include databases, GIS coverages, maps, and a written report.

Sierra Economic Development District has contracted with the Foresters Co-op for the completion of this project by December, 2000.

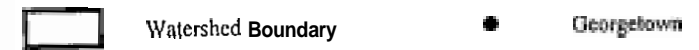
Cumulative Impacts Project Goal and estimated Cost

1. Within the limitation of available resources, a cumulative impacts for a (hypothetical project) 100% landowner fuel reduction project participation will be assessed **and** the completed product will be as close as possible to the scope and quality standards of CEQA programmatic EIR.
2. Establish a regulatory approved methodology and protocol for watershed GIS field data collection protocol that is economically feasible. The target cost for the GIS data collection, field ground truth effort and fuels reduction project cumulative impacts model is less than **\$2.50 /acre**.

Watershed Overview



Traverse Creek Watershed



7.5 min Quad Map Overlay
Portions of Georgetown and
Garden Valley **USGS** Quad Maps

Traverse Cr. Watershed: 9379 Acres -
T13N, R11E portions of sections 31
and 32, T12N, R11E portions of sections
5, 6, 7, 8, 18, 19, 30, and 31, T11N, R11E
portions of 5, 6, and 7, T12N, R10E portion
of sections 1, 11, 12, 13, 14, 23, 24, 25, 26,
35, and 36, T11N, R10E portion of sections
1 and 12.



Foresters Co-op
May 1, 2000

Prioritization of field data Collection

- ❑ Watershed watercourse crossing inventory. As near as possible 100% of all permanent crossing shall be evaluated and a condition analysis made available for GIS input. All failed crossings shall be digitally photographed for GIS linkage. All temporary crossings permitted this year and those that were permitted last year by Fish and Game shall also be field checked. A temporary crossing impacts condition analysis shall be made available for GIS input. The crossing condition shall include location, watercourse identification, road condition rating 200' either side of crossing, type and size of crossing (bridge, CMP, box CMP, ect), functional condition (Plugged, needs maintenance, blown out, functional, or proposed), potential sediment input hazard rating.
- ❑ 15,000 feet of watercourse inventory transects of 500 feet each (30 transect points) will be used to collect watercourse condition data within the watershed. Approximately 60 % of the transect points will be located within storage (< 3% gradient) reach channels, and the remaining transect points will be located along source (>20% gradient) reach channels.
- ❑ Watershed road inventory. Road width, drainage design, location, surface material, and surface condition information is to be recorded for GIS input. Data collected here will be utilized to establish a Road Hazard Rating for this watershed.
- ❑ Soils/EHR and Vegetation data collection. A representative sample of soil/veg data plots is to be collected throughout the watershed. The exact number of plots has not been determined, but is expected to be between 20-30 plots.
- ❑ Species of special concern. Consultations and field investigations will be utilized on an as needed basis dependent upon the presence of listed rare, endangered, or threatened species both plant and animal.
- ❑ Hydrological Modeling field data collection. Ground truth data will be collected specific to the hydrological model (HEC-1) used for impacts evaluation. Historic stream flow data if available is also very helpful in understanding the hydrological dynamics of the watershed.

Field Data Collection Methods

- Crossing Inventow: A field inventory card and photograph will be completed for each road/watercourse crossing inventoried in the watershed. If possible a GPS will be taken for further crossing point information back to the GEO. This data will be required for GIS linkage.
- Watercourse Inventow: All watercourses within the Traverse Creek watershed will be evaluated during "CI" preparation. Approximately thirty (30) stream reach surveys will be conducted using a modified Jones and Stokes Associates Field Assessment of Stream Channel Conditions. Qualitative and Quantitative measurements will be taken every 100 feet over a minimum of 500 feet. Inventory points will be chosen at stream locations that are classified into sediment watercourse types: source (> 20% gradient), transport (3% to 20%), and storage (<3%). The classification of sediment watercourse types is associated with channel gradients. The source Watercourse type refers to steeper channel gradients while the storage watercourse type has the lowest gradients. The transport watercourse type takes into account the reach that conveys sediment from the source to storage. Inventory points will be 60% focused primarily on Class I and Class II storage watercourse types that have functional in stream aquatic habitat. The remaining 40% of sample inventory points will be focused on Class II and Class III that exhibit source and transport sediment gradients. Over 15,000 feet of Watercourse transects are expected to be sampled. A sample data set is as follows;

Sample Watercourse Inventory Assessment Points				
Watercourse Inventory Point	1	2	3	4
Class/Order	II/2	IU3	IU2	I/3
Gravel embeddedness	N	N	N	N
Pool filling	M	M	S	S
Aggrading	SV	M	M	M
Bank cutting	N	N	S	M
Bank mass wasting	N	N	N	S
Down cutting	N	S	N	M
scouring	N	M	S	S
Debris clearing	N	M	S	S
Debris jamming	N	N	N	S
Canopy reduction	S	N	S	S
Recent flooding	M	M	M	M
Condition rating	P	F	F	F
Gradient Class	ST	ST	ST	ST

Individual Factor Rating

N = None

S = Slight

M = Moderate

SV = Severe.

Overall Rating

G = Good

F = Fair

P = Poor

Gradient Class

ST = Storage

TR = Transport

SO = Source

- Sediment/Road Hazard Rating evaluation: A Forest Practice Rule (FPR) modified Equivalent Roaded Acres (ERAs) will be calculated for each of the Traverse Creek State Planning Watershed. All roads, landings, and past ten years of silvicultural for the watershed will be statistically point/segment ground checked so that a FPR modified ERA can be calculated (using GIS) and evaluated to a predetermined Threshold of Concern (TOC) value. Then, the proposed project (100% fuels reduction Silviculture) is evaluated to determine its ERA contribution to the existing condition both immediately after harvest and 10-years in the future. The ten-year future ERA projection is estimated factoring in known future projects and varying degrees of land owner participation in fuel load reduction over time in the watershed. All information available about past, present, and future projects must be incorporated into the GEO for development of the FPR modified ERA calculation. A sample FPR modified ERA calculation is as follows;

Sample "FPR" modified Equivalent Roaded Acreage Analysis

FPR-ERA Analysis	Basin Creek	Campoodle Creek
Road ERA%	1.17	1.38
Pre-Harvest Silviculture ERA%	2.41	1.41
Pre-Harvest ERA% Total	3.58	2.79
 New Road ERA%	 0.00	 0.00
Proposed project ERA%	0.31	0.15
Post-Harvest ERA% Total	0.31	0.15
 Total Post Harvest ERA %	 3.89	 2.95
 Projected Year 2010 ERA% Est.		
Est. Road & Landing ERA%	1.17	1.39
Est. Known Silviculture ERA	1.45	0.94
Other Projects (USFS) ERA%	0.26	0.10
 Total Project Year 2010 ERA% Estimate	 2.90	 2.43

- Soils/EHR and Vegetation data collection. For field data collection, it is expected that fixed plots will be nested inside basal area plots. The quantity of these inventory plots is a direct function on ground truth funding available for this project. Data collected must be linked to the GEO. It is also expected that verification of past land management practices can be evaluated during this phase of field data collection.